

JOE MANN

Senior Software Engineer

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Munich, Germany

Polyglot developer, DevOps advocate, Open Source Software enthusiast, and Linux native.

Consistently valued team member, trusted mentor, efficient communicator, and effective project leader.

Go // GraphQL
Protocol Buffers // gRPC
Kafka // RabbitMQ
C // C++ // Boost // GTest
Java // Spring // Groovy
C# // Python // Bash // TypeScript
JavaScript // React // Redux // CSS
Flutter // Riverpod // Mockito
Docker // Kubernetes // AWS
GitHub // GitLab // Jenkins
Make // CMake
Neo4j // PostgreSQL
Couchbase // Cassandra
Cucumber // Gherkin
Elasticsearch // Logstash // Kibana
OpenTelemetry // Jaeger
Git // Subversion // SourceSafe
nix // Bazel // Maven // Ant
InstallShield // WiX // MSI
VSTO // COM

Applied Computer Science (Hons.),
with Sandwich Year
University of Reading, UK
2011 – 2015

GitHub: /joe-mann

LinkedIn: /joe-mann-software-engineer

golane (*BlueGo*), Munich, Germany // Jan 2020 – Present

Leading the development of a greenfield public transport ticketing system for the German market. Implementing pay-as-you-travel ticketing, but requiring integration with complex tariff systems in order to comply with existing regulations. Responsible for product architecture decisions and technology selection, with particular focus on testability, maintainability and extensibility.

Consistently advocating for quality, observability and efficiency practices to improve time-to-market and defect density. Developing primarily with **Go** and **gRPC**, and **GraphQL**, whilst also contributing valuable experience via code reviews and planning sessions. Steering the development of key components including route deduction backed by **Neo4j** and a companion plugin written in **Java**, as well as location ingestion supported by **Kafka**. Additionally oversaw a rewrite of the product's **Flutter** app for mobile and web, incorporating a suite of **Gherkin** acceptance tests.

Brainloop (*Diligent*), Munich, Germany // Nov 2018 – Dec 2019

Member of a small full-stack team developing the company's next generation "secure collaboration" technology platform and product line, with a back-end of **microservices** written in **Go** and built around **event sourcing** and **CQRS**. Also building and maintaining the single-page web application using **React** and **Redux**. Initiated and steered a number code quality and CI improvements to help solve long-term problem areas.

Mentoring those who wish to transition from front-end to full-stack. Additionally, a regular contributor to decisions about technology and process, and recognised by colleagues as an excellent facilitator of discussion.

Visa Inc., Reading, UK // Aug 2017 – Oct 2018

Building new payment processing systems with **Go**, **gRPC**, and **Kafka**. Working in a highly regulated sector, and on a product where high throughput, low latency and high availability are paramount.

Striving to improve developer productivity through CI improvements, as well as a new development environment virtual machine that was adopted across global teams. As the most experienced Go engineer in the team, a significant amount of time is spent mentoring others and delivering "brown bag sessions" on a number of technology and software development topics. Recipient of numerous awards from colleagues that reflect approachability and value to the team.

Clearswift (*RUAG*), Reading, UK // June 2013 – July 2017

Primarily working on the "Secure Email Gateway" product, mostly written in **C++** but also incorporating **Java** and **Python** components. Instigated and lead a number of improvement projects to update to **C++17**, and replace large parts of in-house code with **Boost**, **Google Test**, and **CMake**. Additionally, conceived and lead the development of a product add-on to simplify the reporting of spam email from Outlook.